



FIG. 1A

42	-0.33	====D
43	-0.83	=====L
44	-0.83	=====I
45	-0.83	=====L
46	-0.48	====N
47	-0.47	====N
48	0.00	G
49	-0.38	====L
50	-0.33	==L
51	0.47	S====
52	0.12	S=
53	-0.02	D
54	-0.90	=====Y
55	-0.02	V
56	0.27	E====
57	-0.23	==I
58	0.57	H=====
59	0.65	Y=====
60	1.07	E=====
61	0.58	N=====
62	0.60	G=====
63	1.10	K=====
64	0.60	P=====
65	0.60	Q=====
66	1.07	y=====
67	0.97	S=====
68	0.75	K=====
69	-0.13	=G
70	-0.52	====G
71	-0.60	====E
72	-1.10	=====H
73	-0.97	=====C
74	-1.10	=====Y
75	-0.22	==Y
76	0.17	H==
77	0.00	G
78	0.50	S====
79	0.95	I=====
80	1.30	R=====
81	1.30	G=====
82	1.05	V=====
83	1.22	K=====
84	0.42	D====
85	-0.65	====S

FIG. 1B

86	-0.77	=====K
87	-1.43	=====V
88	-1.15	=====A
89	-1.07	=====L
90	-1.07	=====S
91	-0.58	=====T
92	-0.52	=====C
93	-0.57	=====N
94	-1.02	=====G
95	-0.52	=====L
96	0.28	H====
97	0.87	G=====
98	0.80	M=====
99	0.60	F=====
100	0.77	E=====
101	-0.12	=D
102	-0.83	=====D
103	-1.63	=====T
104	-1.07	=====F
105	-0.65	=====V
106	-0.70	=====Y
107	0.18	M==
108	0.10	I=
109	0.15	E=
110	-0.43	====P
111	0.07	L=
112	0.87	E=====
113	0.87	L=====
114	1.22	V=====
115	1.40	H=====
116	1.48	D=====
117	1.48	E=====
118	0.98	K=====
119	0.40	S====
120	0.05	T
121	-0.18	==G
122	-0.15	=R
123	-0.15	=P
124	-0.22	==H
125	-0.43	==I
126	-0.22	==I
127	0.08	Q=
128	0.08	K=
129	-0.40	====T

FIG. 1C

130	-0.28
131	0.52
132	0.63
133	0.42
134	0.88
135	0.90
136	0.55
137	-0.02
138	-0.27
139	0.45
140	0.45
141	0.42
142	1.22
143	1.32
144	1.37
145	0.87
146	-0.05
147	-0.35
148	-0.80
149	-0.33
150	-0.47
151	-0.43
152	-0.58
153	-0.58
154	-0.13
155	-0.13
156	0.67
157	1.13
158	2.20
159	2.42
160	1.67
161	1.20
162	0.70
163	0.25
164	0.25
165	0.33
166	0.28
167	-0.17
168	0.33
169	0.78
170	0.07
171	0.57
172	0.48
173	0.60

===L
 A=====
 G=====
 Q=====
 y=====
 S=====
 K=====
 Q
 ===M
 K=====
 N=====
 L=====
 T======
 M======
 E======
 R======
 =G
 ===D
 =====Q
 ===W
 ===P
 ===F
 =====L
 =====S
 =E
 =L
 Q=====
 W======
 L======
 K======
 R======
 R======
 K=====
 R===
 A===
 V===
 N===
 ==P
 S===
 R======
 G=
 I======
 F======
 E======

FIG. 1D

174	0.60	E=====
175	-0.20	==M
176	-0.20	==K
177	-1.00	=====Y
178	-0.62	=====L
179	-0.28	==E
180	-0.28	==L
181	0.33	M====
182	1.05	I=====
183	1.28	G=====
184	1.30	N=====
185	1.77	D=====
186	1.77	h=====
187	1.77	K=====
188	1.77	T=====
189	1.88	y=====
190	1.92	K=====
191	1.33	K=====
192	0.75	h=====
193	0.35	R====
194	-0.22	==S
195	-0.23	==S
196	-0.25	==H
197	-0.58	=====A
198	-0.58	=====H
199	0.00	T
200	0.12	N=
201	-0.17	==N
202	-0.45	=====F
203	0.00	A
204	-0.22	==K
205	-0.97	=====S
206	-0.52	=====V
207	-0.22	==V
208	-0.27	==N
209	-0.68	=====L
210	0.12	V=
211	0.87	D=====
212	0.40	S====
213	0.05	I=
214	0.38	Y====
215	0.70	K=====
216	0.70	E=====
217	-0.05	Q

FIG. 1E

218	-0.33	==L
219	-0.33	==N
220	-0.62	====T
221	-0.63	=====R
222	-1.38	=====V
223	-0.63	=====V
224	-0.45	====L
225	-0.32	==V
226	-0.13	=A
227	0.45	V====
228	1.20	E=====
229	1.20	T=====
230	1.30	W=====
231	1.17	T=====
232	1.73	E=====
233	0.93	K=====
234	0.37	D====
235	-0.20	==Q
236	-0.20	==I
237	0.10	D=
238	-0.65	=====I
239	-0.32	==T
240	-0.47	=====T
241	-0.70	=====N
242	-0.82	=====P
243	-0.32	==V
244	-0.48	==Q
245	-0.47	==M
246	0.25	L==
247	0.57	H=====
248	1.15	E=====
249	0.68	F=====
250	1.60	S=====
251	1.25	K=====
252	1.25	y=====
253	1.27	R=====
254	0.68	Q=====
255	0.57	R=====
256	0.57	I=====
257	0.78	K=====
258	0.03	Q
259	-0.08	=H
260	-0.30	==A
261	-0.52	==D

FIG. 1F

262	-0.97	=====A
263	-0.38	====V
264	-0.38	====H
265	-0.37	====L
266	-0.48	====I
267	-0.27	====S
268	-0.70	=====R
269	-0.70	=====V
270	0.05	T=
271	0.17	F==
272	0.63	H=====
273	0.42	Y=====
274	0.85	K=====
275	-0.03	R
276	-0.95	=====S
277	-0.50	====S
278	-0.55	====L
279	-0.50	====S
280	-0.72	=====Y
281	-0.28	====F
282	0.63	E=====
283	0.07	G=
284	0.57	V=====
285	0.82	C=====
286	0.73	S=====
287	0.68	R=====
288	-0.07	=T
289	0.03	R
290	0.03	G
291	0.05	V=
292	0.30	G==
293	0.00	V
294	0.25	N==
295	0.00	E
296	-0.58	=====y
297	-0.85	=====G
298	-0.93	=====L
299	-0.60	====P
300	-0.85	=====M
301	-0.93	=====A
302	-0.80	=====V
303	-0.52	====A
304	-0.38	====Q
305	-0.72	=====V

FIG. 1G

306	-0.55	=====L
307	-0.22	==S
308	-0.23	==Q
309	-0.57	=====S
310	-0.62	=====L
311	-0.62	=====A
312	-0.50	=====Q
313	-1.10	=====N
314	-0.63	=====L
315	-0.33	==G
316	-0.28	==I
317	0.07	Q= -
318	0.53	W=====
319	1.60	E=====
320	1.10	P=====
321	1.60	S=====
322	1.38	S=====
323	1.83	R=====
324	1.17	K=====
325	0.60	P=====
326	1.10	K=====
327	0.65	C=====
328	0.65	D=====
329	0.15	C=
330	0.32	T==
331	0.22	E==
332	-0.58	=====S
333	-0.85	=====W
334	-0.18	==G
335	0.32	G==
336	0.25	C==
337	0.42	I==
338	0.47	M==
339	0.73	E==
340	0.15	E=
341	-0.30	T
342	0.27	G==
343	0.77	V=====
344	0.60	S=====
345	0.60	H=====
346	1.18	S=====
347	0.97	R=====
348	0.52	K=====
349	-0.28	F

350	-0.17	==S
351	0.28	K==
352	-0.60	=====C
353	0.07	S=
354	0.52	I=====
355	0.40	L=====
356	0.40	E=====
357	-0.07	=Y
358	0.82	R=====
359	0.32	D====
360	-0.18	==F
361	-0.33	==L
362	-0.12	=Q
363	-0.32	==R
364	-1.12	=====G
365	-1.53	=====G
366	-1.50	=====g
367	-0.43	==A
368	-0.35	==C
369	-0.25	==L
370	0.55	F=====
371	0.67	N=====
372	0.22	R==
373	0.22	P==
374	0.22	T==
375	0.22	K==
376	0.22	L==
377	0.35	F=====
378	0.77	E=====
379	0.30	P==
380	0.30	T==
381	-0.02	E
382	-0.77	=====C
383	-0.10	=G
384	-0.18	==N
385	-0.22	==G
386	0.28	Y==
387	1.17	V=====
388	1.25	E=====
389	1.25	A=====
390	1.17	G=====
391	1.17	E=====
392	0.25	E==
393	-0.33	==C

FIG. 11

394	-0.42	====D
395	-0.42	====C
396	-0.42	====G
397	-0.80	=====F
398	-0.38	====H
399	-0.60	=====V
400	-0.52	=====E
401	-1.18	=====C
402	-0.52	=====Y
403	0.37	=====G
404	0.20	=====L
405	0.55	=====C
406	0.42	=====C
407	0.63	=====K
408	0.17	=====K
409	-0.33	====C
410	-0.25	====S
411	-0.38	====L
412	-0.25	====S
413	-0.25	====N
414	0.22	=====G
415	0.22	=====A
416	0.30	=====H
417	0.22	=====C
418	0.22	=====S
419	0.20	=====D
420	-0.27	====G
421	-0.33	====P
422	-0.28	====C
423	-0.28	====C
424	-0.42	====N
425	-0.87	=====N
426	-0.87	=====T
427	-0.80	=====S
428	-0.35	====C
429	-0.18	==L
430	0.13	F=
431	1.05	Q=====
432	0.85	P=====
433	1.35	R=====
434	1.35	G=====
435	1.27	y=====
436	1.00	E=====
437	0.53	C=====

FIG. 1J

438	1.20	R=====
439	0.53	D=====
440	0.53	A=====
441	0.32	V====
442	0.50	N====
443	0.97	E=====
444	0.08	C=
445	0.08	D=
446	-0.48	====I
447	-0.18	==T
448	0.38	E====
449	-0.07	=Y
450	0.32	C==
451	0.52	T=====
452	0.42	G=====
453	0.42	D=====
454	-0.08	=S
455	-0.10	=G
456	-0.40	====Q
457	-0.52	====C
458	0.15	P==
459	0.18	P==
460	0.68	N=====
461	0.65	L=====
462	0.57	H=====
463	0.57	K=====
464	-0.10	=Q
465	-0.10	=D
466	-0.57	====G
467	-0.53	====Y
468	-0.12	=A
469	-0.03	C
470	0.63	N=====
471	0.43	Q====
472	0.02	N
473	0.02	Q
474	-0.02	G
475	0.48	R=====
476	-0.18	==C
477	0.48	Y====
478	0.80	N=====
479	1.27	G=====
480	1.77	E=====
481	1.30	C=====

FIG. 1K

12/17

482	1.50	K=====
483	0.83	T=====
484	0.93	R=====
485	0.05	D=
486	-0.75	=====N
487	-1.35	=====Q
488	-1.38	=====C
489	-1.28	=====Q
490	-0.82	=====Y
491	-0.52	====I
492	-0.30	====W
493	0.27	G==
494	0.32	T==
495	0.88	K=====
496	0.88	A=====
497	0.55	A=====
498	0.47	G==
499	0.08	S=
500	0.53	D=====
501	0.53	K=====
502	-0.27	====F
503	0.18	C==
504	0.28	Y==
505	1.17	E=====
506	0.67	K=====
507	0.10	L=
508	0.90	N=====
509	1.37	T=====
510	1.43	E=====
511	0.97	G=====
512	0.80	T=====
513	0.87	E=====
514	0.87	K=====
515	0.87	G=====
516	0.87	N=====
517	1.33	C=====
518	2.00	G=====
519	1.43	K=====
520	0.63	D=====
521	0.17	G==
522	0.00	D
523	-0.45	====R
524	-0.45	====W
525	0.43	I==

FIG. 1L

526	1.23	Q=====
527	0.95	C=====
528	0.70	S=====
529	0.48	K=====
530	-0.58	====h
531	-1.32	=====D
532	-2.12	=====V
533	-2.17	=====F
534	-1.92	=====C
535	-1.82	=====g
536	-1.22	=====F
537	-1.10	=====L
538	-0.87	=====L
539	-0.07	=C
540	0.02	T
541	0.08	N=
542	0.55	L=====
543	0.55	T=====
544	0.62	R=====
545	0.15	A==
546	-0.07	=P
547	-0.03	R
548	-0.53	====I
549	0.27	G==
550	-0.03	Q
551	-0.37	====L
552	-0.07	=Q
553	-0.17	==G
554	-0.12	=E
555	-1.03	=====I
556	-1.12	=====I
557	-0.90	=====P
558	-0.87	=====T
559	-0.80	=====S
560	-0.35	====F
561	-0.18	==Y
562	-0.10	=H
563	0.48	Q=====
564	0.28	G==
565	0.33	R==
566	-0.17	==V
567	0.00	I
568	0.22	D==
569	-0.53	====C

FIG. 1M

570	-0.62	=====S
571	-0.97	=====G
572	-0.47	=====A
573	0.12	H=
574	0.70	V=====
575	0.88	V=====
576	1.63	L=====
577	1.68	D=====
578	1.18	D=====
579	0.30	D==
580	-0.45	=====T
581	0.12	D=
582	0.12	V=
583	0.37	G=====
584	0.30	Y=====
585	0.68	V=====
586	0.77	E=====
587	0.27	D==
588	-0.23	==G
589	-0.18	==T
590	-0.33	==P
591	-0.55	=====C
592	-0.55	=====G
593	-0.85	=====P
594	-0.35	====S
595	0.10	M=
596	0.82	M=====
597	0.87	C=====
598	0.73	L=====
599	1.07	D=====
600	0.27	R==
601	-0.20	==K
602	-0.78	=====C
603	-0.92	=====L
604	-0.58	=====Q
605	-0.83	=====I
606	-0.48	=====Q
607	-0.47	====A
608	-0.55	=====L
609	-0.25	==N
610	-0.58	====M
611	0.13	S=
612	0.13	S=
613	0.58	C=====

FIG. 1N